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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/851,138

DATE: 06/08/2001
TIME: 14:46:15

Input Set : C:\PAOLA\09851138.txt
Output Set: N:\CRF3\06082001\I851138.raw

ENTERED

412

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
 6 (i) APPLICANT: MAERTENS, GEERT
 7 STUYVER, LIEVEN
 9 (ii) TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 10 AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 11 AGENTS
 13 (iii) NUMBER OF SEQUENCES: 207
 15 (iv) CORRESPONDENCE ADDRESS:
 16 (A) ADDRESSEE: ARNOLD, WHITE & DURKEE
 17 (B) STREET: P.O. BOX 4433
 18 (C) CITY: HOUSTON
 19 (D) STATE: TEXAS
 20 (E) COUNTRY: USA
 21 (F) ZIP: 77210-4433
 23 (v) COMPUTER READABLE FORM:
 24 (A) MEDIUM TYPE: Floppy disk
 25 (B) COMPUTER: IBM PC compatible
 26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 27 (D) SOFTWARE: Microsoft Word 6.0 / ASCII text output
 29 (vi) CURRENT APPLICATION DATA:
 C--> 30 (A) APPLICATION NUMBER: US/09/851,138
 C--> 31 (B) FILING DATE: 09-May-2001
 C--> 41 (vii) PRIOR APPLICATION DATA:
 34 (A) APPLICATION NUMBER: 08/836,075
 35 (B) FILING DATE:
 38 (A) APPLICATION NUMBER: EP 94870166.9
 39 (B) FILING DATE: 21 Oct 1994
 42 (A) APPLICATION NUMBER: EP 95870076.7
 43 (B) FILING DATE: 28 Jun 1995
 C--> 45 (viii) ATTORNEY/AGENT INFORMATION:
 46 (A) NAME: KAMMERER, PATRICIA A.
 47 (B) REGISTRATION NUMBER: 29,775
 48 (C) REFERENCE/DOCKET NUMBER: INNS:004
 50 (2) INFORMATION FOR SEQ ID NO: 1:
 52 (i) SEQUENCE CHARACTERISTICS:
 53 (A) LENGTH: 327 base pairs
 54 (B) TYPE: nucleic acid
 55 (C) STRANDEDNESS: single
 56 (D) TOPOLOGY: linear
 58 (ii) MOLECULE TYPE: cDNA
 60 (iii) HYPOTHETICAL: NO
 C--> 62 (iv) ANTI-SENSE: NO
 67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 69 ATGAGCACGA ATCCTAAACC TCAAAGAAAA ACCAACGTA ACACCAACCG CCGCCCTCAK 60
 71 GGSGTNNNNN NNCCGGGTGG CGGTCAAGATC GTTGGTGGAG TTTACCTGTT GCCGCGCAGG 120
 73 GGCCCCAGGN NGGGTGTGCG CGCGACTAGG AAGACTTCCG AGCGGTCACA ACCTCGTGGC 180

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75 AGGCAGACAGC CTATCCCCAA GGCTCGYCGG YCCGAGGGCA GGTCTGGGC TCAGCCCCGGG 240
 77 TATCCTTGGC CCCTCTATGG CAATGAGGGC TGCGGGTGGG CGGGNTGGCT CCTGTCCCCC 300
 79 CGCGGCTCTC GGCCCAATTG GGGCCCC 327
 81 (2) INFORMATION FOR SEQ ID NO: 2:
 83 (i) SEQUENCE CHARACTERISTICS:
 84 (A) LENGTH: 109 amino acids
 85 (B) TYPE: amino acid
 86 (D) TOPOLOGY: linear
 88 (ii) MOLECULE TYPE: peptide
 92 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 94 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 95 1 5 10 15
 W--> 97 Arg Arg Pro Xaa Xaa Xaa Xaa Pro Gly Gly Gly Gln Ile Val Gly
 98 20 25 30
 W--> 100 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Ala
 101 35 40 45
 103 Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 104 50 55 60
 W--> 106 Ile Pro Lys Ala Xaa Arg Xaa Glu Gly Arg Ser Trp Ala Gln Pro Gly
 107 65 70 75 80
 W--> 109 Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Xaa Trp
 110 85 90 95
 112 Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro
 113 100 105
 115 (2) INFORMATION FOR SEQ ID NO: 3:
 117 (i) SEQUENCE CHARACTERISTICS:
 118 (A) LENGTH: 447 base pairs
 119 (B) TYPE: nucleic acid
 120 (C) STRANDEDNESS: single
 121 (D) TOPOLOGY: linear
 123 (ii) MOLECULE TYPE: cDNA
 125 (iii) HYPOTHETICAL: NO
 C--> 127 (iv) ANTI-SENSE: NO
 131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 133 GACGGCGTGA ACTATGCAAC AGGGAACTTG CCCGGTTGCT CTTTCTCTAT CTTCTCTTG 60
 135 GCTTTGCTGT CCTGCTTGAC GGTTCCAACK ACCGCTCACG AGGTGCGCAA CGCATCCGGG 120
 137 GTGTATCATG TCACCAACGA CTGTTCCAAC TCGAGCATCA TCTATGAGAT GGACGGTATG 180
 139 ATCATGCACT ACCCAGGGTG CGTGCCTGCTG GTTCGGGAGG ATAACCACATCT CCGCTGCTGG 240
 141 ATGGCGCTCA CCCCCAACGCT TGCAGTCAAA AAYGCTAGTG TCCCCACTRC GGCAATCCGA 300
 143 CGTCACGTG ACTTGCTTGT TGGGGNNNCC ACGTTCTGTT CCGCTATGTA CGTGGGRGAC 360
 145 CTTTGCAGGT CTGTCTTCCT CGCTGGCCAG CTATTCACCT TTTCACCCCG CATGCACCAT 420
 147 ACAACGCAGG AGTGCAACTG CTCAAC
 149 (2) INFORMATION FOR SEQ ID NO: 4:
 151 (i) SEQUENCE CHARACTERISTICS:
 152 (A) LENGTH: 149 amino acids
 153 (B) TYPE: amino acid
 154 (D) TOPOLOGY: linear
 156 (ii) MOLECULE TYPE: peptide
 160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

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162 Asp Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser
163 1 5 10 15
W--> 165 Ile Phe Leu Leu Ala Leu Ser Cys Leu Thr Val Pro Xaa Thr Ala
166 20 25 30
168 His Glu Val Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
169 35 40 45
171 Ser Asn Ser Ser Ile Ile Tyr Glu Met Asp Gly Met Ile Met His Tyr
172 50 55 60
174 Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn His Leu Arg Cys Trp
175 65 70 75 80
W--> 177 Met Ala Leu Thr Pro Thr Leu Ala Val Lys Xaa Ala Ser Val Pro Thr
178 85 90 95
W--> 180 Xaa Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Xaa Xaa Thr Phe
181 100 105 110
W--> 183 Cys Ser Ala Met Tyr Val Xaa Asp Leu Cys Gly Ser Val Phe Leu Ala
184 115 120 125
186 Gly Gln Leu Phe Thr Phe Ser Pro Arg Met His His Thr Thr Gln Glu
187 130 135 140
189 Cys Asn Cys Ser Ile
190 145
192 (2) INFORMATION FOR SEQ ID NO: 5:
194 (i) SEQUENCE CHARACTERISTICS:
195 (A) LENGTH: 327 base pairs
196 (B) TYPE: nucleic acid
197 (C) STRANDEDNESS: single
198 (D) TOPOLOGY: linear
200 (ii) MOLECULE TYPE: cDNA
202 (iii) HYPOTHETICAL: NO
C--> 204 (iv) ANTI-SENSE: NO
208 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
210 ATGAGCACGA ATCCTAAACC TCAAAGAAAA ACCAAACGTA ACACCAACCG CCGCCCACAG 60
212 GACGTCAAGN TCCCGGGTGG TGGTCAGATC GTTGGTGGAG TTTACCTGTT GCCGCGCAGG 120
214 GGCCCCAGGT TGGGTGTGCG CGCGACCAGG AAGACTTCCG AGCGGTCGCA GCCTCGTGAC 180
216 AGGCGACAGC CTATTCTAA GGCTCGCCAG TCCGATGGCA GNNCCTGGGC TCAGCCAGGG 240
218 CATCCCTGGC CCCTCTATGG CAATGAGGGC TGCGGATGGG CGGGATGGCT CCTGTCCCC 300
220 CGCGGCTCTC GGCCCAGTTG GGGCCCC 327
222 (2) INFORMATION FOR SEQ ID NO: 6:
224 (i) SEQUENCE CHARACTERISTICS:
225 (A) LENGTH: 109 amino acids
226 (B) TYPE: amino acid
227 (D) TOPOLOGY: linear
229 (ii) MOLECULE TYPE: peptide
233 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
235 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
236 1 5 10 15
W--> 238 Arg Arg Pro Gln Asp Val Lys Xaa Pro Gly Gly Gly Gln Ile Val Gly
239 20 25 30
241 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
242 35 40 45

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244 Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Asp Arg Arg Gln Pro
245 50 55 60
W--> 247 Ile Pro Lys Ala Arg Gln Ser Asp Gly Xaa Xaa Trp Ala Gln Pro Gly
248 65 70 75 80
250 His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
251 85 90 95
253 Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro
254 100 105
256 (2) INFORMATION FOR SEQ ID NO: 7:
258 (i) SEQUENCE CHARACTERISTICS:
259 (A) LENGTH: 447 base pairs
260 (B) TYPE: nucleic acid
261 (C) STRANDEDNESS: single
262 (D) TOPOLOGY: linear
264 (ii) MOLECULE TYPE: cDNA
266 (iii) HYPOTHETICAL: NO
C--> 268 (iv) ANTI-SENSE: NO
272 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
274 GACGGCGTGA ACTATGCAAC AGGGAATTG CCTGGTTGCT CTTTCTCTAT CTTCCCTCTTA 60
276 GCTTTCTGT CCTGCTTGAC GGTTCCAAC ACCGCTCATG AGGTGCGCAA CGCATCCGGG 120
278 GTATATCATC TCACCAATGA CTGTTCCAAC TCGAGCATCA TCTATGAGAT GAGTGGTATG 180
280 ATCTTGCACG CCCCAGGGTG TGTGCCCTGC GTTCGGGAGA ACAACTCTTC TCGTTGCTGG 240
282 ATGCCRCTCA CCCCCACCGCT TGCGGTCAAA GACGCTAATG TCCCTACTGC GGCAATCCGA 300
284 CGCCATGTCG ACTTGCTGGT TGGGACAGCC GCGTTTCGTT CCGCTATGTA CGTGGGGGAC 360
286 CTCTGCGGAT CCGTCTTCCT TGTCGGCCAG CTATTCACCT TTTCACCCCG CTTGTACCAT 420
288 ACAACACAGG AGTGCAACTG CTCAAC 447
290 (2) INFORMATION FOR SEQ ID NO: 8:
292 (i) SEQUENCE CHARACTERISTICS:
293 (A) LENGTH: 149 amino acids
294 (B) TYPE: amino acid
295 (D) TOPOLOGY: linear
297 (ii) MOLECULE TYPE: peptide
301 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
303 Asp Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser
304 1 5 10 15
306 Ile Phe Leu Leu Ala Phe Leu Ser Cys Leu Thr Val Pro Thr Thr Ala
307 20 25 30
309 His Glu Val Arg Asn Ala Ser Gly Val Tyr His Leu Thr Asn Asp Cys
310 35 40 45
312 Ser Asn Ser Ser Ile Ile Tyr Glu Met Ser Gly Met Ile Leu His Ala
313 50 55 60
315 Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
316 65 70 75 80
W--> 318 Met Xaa Leu Thr Pro Thr Leu Ala Val Lys Asp Ala Asn Val Pro Thr
319 85 90 95
321 Ala Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Thr Ala Ala Phe
322 100 105 110
324 Arg Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
325 115 120 125

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327 Gly Gln Leu Phe Thr Phe Ser Pro Arg Leu Tyr His Thr Thr Gln Glu
328 130 135 140
330 Cys Asn Cys Ser Ile
331 145
333 (2) INFORMATION FOR SEQ ID NO: 9:
335 (i) SEQUENCE CHARACTERISTICS:
336 (A) LENGTH: 223 base pairs
337 (B) TYPE: nucleic acid
338 (C) STRANDEDNESS: single
339 (D) TOPOLOGY: linear
341 (ii) MOLECULE TYPE: cDNA
343 (iii) HYPOTHETICAL: NO
C--> 345 (iv) ANTI-SENSE: NO
349 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
351 ATGAGCACGA ATCCTAAACC TCAAAGAAAA ACCAAAAGAA ACACCAACCG CCGCCCACAG 60
353 GACGTCAAGT TCCCGGGCGG TGGCCAGATC GTTGGTGGAG TCTACGTGCT ACCGCGCAGG 120
355 GGCCCTAGAT TGGGTGTGCG CGCAGCGCGG AAGACTTCGG AGCGGTGCGA ACCTCGTGGG 180
357 AGGCGCCAAC CTATTCCAA GGAGCGCCGA CCCGAGGGCA GGT 223
359 (2) INFORMATION FOR SEQ ID NO: 10:
361 (i) SEQUENCE CHARACTERISTICS:
362 (A) LENGTH: 74 amino acids
363 (B) TYPE: amino acid
364 (D) TOPOLOGY: linear
366 (ii) MOLECULE TYPE: peptide
370 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
372 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
373 1 5 10 15
375 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
376 20 25 30
378 Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
379 35 40 45
381 Ala Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
382 50 55 60
384 Ile Pro Lys Glu Arg Arg Pro Glu Gly Arg
385 65 70
387 (2) INFORMATION FOR SEQ ID NO: 11:
389 (i) SEQUENCE CHARACTERISTICS:
390 (A) LENGTH: 957 base pairs
391 (B) TYPE: nucleic acid
392 (C) STRANDEDNESS: single
393 (D) TOPOLOGY: linear
395 (ii) MOLECULE TYPE: cDNA
397 (iii) HYPOTHETICAL: NO
C--> 399 (iv) ANTI-SENSE: NO
403 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
405 ATGAGCACGA ATCCTAAACC TCAAAGAAAA ACCAAACGCA ACACCAACCG CCGCCCACAG 60
407 GACGTTAAAT TCCCGGGTGG GGGGCAGATC GTGGGTGGAG TTTACTTGTGTT GCCGCGCAGG 120
409 GGCCCCAGGT TGGGTGTGCG CGCAGCGAGG AAGACTTCGG AGCGGTGCGA ACCTCGCGGA 180
411 AGGCGACAGC CTATCCCCAA GGCTCGCCGA CCCGAGGGCA GGTCTGGGC TCAGCCTGGG 240

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Input Set : C:\PAOLA\09851138.txt
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L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:41 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:45 M:220 C: Keyword misspelled or invalid format, [(viii) ATTORNEY/AGENT INFORMATION:]
L:62 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:127 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:204 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:268 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:345 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:399 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:522 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:586 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:676 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:799 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:876 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:929 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1006 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1073 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:1140 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:1217 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]

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L:1294 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1371 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1448 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1525 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1602 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1725 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1848 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1920 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:1992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:1998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:2004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:2043 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2110 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:2187 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2254 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2321 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2388 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2468 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2535 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2602 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2691 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2758 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2825 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2892 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2959 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3090 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3157 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3224 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3291 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3358 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]

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L:3425 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3492 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3559 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]